

CLAIMS

What is claimed is:

1. A folded and tapped monopole antenna.
2. The folded and tapped monopole antenna of claim 1, wherein the folded and tapped monopole antenna is printed onto a surface.
3. The folded and tapped monopole antenna of claim 1, wherein the folded and tapped monopole antenna covers an area of less than 0.3 square inches.
4. A bent and folded monopole antenna.
5. The bent and folded monopole antenna of claim 4, wherein the bent and folded monopole antenna is printed onto a surface.
6. The bent and folded monopole antenna of claim 4, wherein the bent and folded monopole antenna covers an area of less than 0.3 square inches.
7. The bent and folded monopole antenna of claim 4, further comprising:
a tap connected a distance from an end.
8. An antenna, comprising:
a first "L-shaped" section;
a second "L-shaped" section;
at least one section joining the first "L-shaped" section with the second "L-shaped" section; and
a tap connected to the first "L-shaped" section.
9. The antenna of claim 8, wherein the antenna is printed onto a surface.
10. The antenna of claim 8, wherein the antenna covers an area of less than 0.3 square inches.

11. The antenna of claim 8, wherein the first "L-shaped" section and the second "L-shaped" section have approximately identical widths.
12. The antenna of claim 11, wherein the tap has a width approximately equal to the approximately identical widths.
13. The antenna of claim 8, wherein the at least one section joining the first "L-shaped" section with the second "L-shaped" section further comprises two sections joining the first "L-shaped" section with the second "L-shaped" section at each end.
14. The antenna of claim 13, wherein the antenna is configured to couple ground at an end of each of the first "L-shaped" section and the second "L-shaped" section, and wherein the antenna is further configured to couple a signal junction at the tap.
15. The antenna of claim 8, wherein the antenna is configured to receive at least at an approximate frequency of 2.45 GHz.
16. The antenna of claim 15, wherein the antenna is further configured with an impedance of approximately 50 ohms.
17. The antenna of claim 15, wherein the antenna is printed onto a surface.
18. The antenna of claim 15, wherein the antenna covers an area of less than 0.3 square inches.
19. An antenna system, comprising:
 - a first folded monopole antenna including a first tap a distance from an end of the first folded monopole antenna; and
 - a second folded monopole antenna including a second tap an equivalent distance from an end of the second folded monopole antenna;

wherein the first folded monopole antenna and the second folded monopole antenna are approximately positioned about a line of symmetry, and wherein the end of the first folded monopole antenna and the end of the second folded monopole antenna are in close proximity across the line of symmetry, wherein the end of the first folded monopole antenna and the end of the second folded monopole antenna are each configured to couple to ground, and wherein the first tap and the second tap are each configured to receive a signal.

20. The antenna system of claim 19, wherein the first folded monopole antenna and the second folded monopole antenna are printed onto a surface.
21. The antenna system of claim 19, wherein each of the first folded monopole antenna and the second folded monopole antenna covers an area of less than 0.3 square inches.
22. The antenna system of claim 19, wherein the antenna system is configured to receive at least at an approximate frequency of 2.45 GHz.
23. The antenna system of claim 22, wherein the antenna system is further configured with an impedance of approximately 50 ohms.
24. An antenna system, comprising:
 - a first bent and folded monopole antenna including a first tap a distance from an end of the first folded monopole antenna; and
 - a second bent and folded monopole antenna including a second tap the distance from an end of the second folded monopole antenna;

wherein the first bent and folded monopole antenna and the second bent and folded monopole antenna are approximately positioned about a line of symmetry, and wherein the end of the first bent and folded monopole antenna and the end of the second bent and folded monopole antenna in close proximity across the line of symmetry, wherein the end of the first bent and folded monopole antenna and the end of the second bent and folded monopole antenna are each configured to couple to ground, and wherein the first tap and the second tap are each configured to receive a signal.

25. The antenna system of claim 24, wherein the first bent and folded monopole antenna and the second bent and folded monopole antenna are printed onto a surface.
26. The antenna system of claim 25, wherein the antenna system is printed onto the surface of a card.
27. The antenna system of claim 26, wherein the antenna system is printed onto the surface of a modem card.
28. The antenna system of claim 24, wherein each of the first bent and folded monopole antenna and the second bent and folded monopole antenna covers an area of less than 0.3 square inches.
29. The antenna system of claim 24, wherein the antenna system is configured to receive at least at an approximate frequency of 2.45 GHz.
30. The antenna system of claim 29, wherein the antenna system is further configured with an impedance of approximately 50 ohms.
31. A modem, comprising:

a first bent and folded monopole antenna including a first tap a distance from an end of the first folded monopole antenna; and

a second bent and folded monopole antenna including a second tap the distance from an end of the second folded monopole antenna;

wherein the first bent and folded monopole antenna and the second bent and folded monopole antenna are approximately positioned about a line of symmetry, and wherein the end of the first bent and folded monopole antenna and the end of the second bent and folded monopole antenna in close proximity across the line of symmetry, wherein the end of the first bent and folded monopole antenna and the end of the second bent and folded monopole antenna are each configured to couple to ground, and wherein the first tap and the second tap are each configured to receive a signal, wherein the first bent and folded monopole antenna and the second bent and folded monopole antenna are printed onto a surface of the modem.

32. The modem of claim 31, wherein the modem is configured as an internal modem for a computer system.
33. The modem of claim 31, wherein the modem is configured as an externally insertable and removable modem for a computer system.
34. The modem of claim 31, wherein the modem is configured as a wireless handset.